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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/725,936 12/03/2003		12/03/2003	Takuji Chiba	392.1845	4483
21171	7590	10/06/2005		EXAMINER	
STAAS & I	IALSEY	/ LLP	PHAM, THOMAS K		
SUITE 700 1201 NEW YORK AVENUE, N.W.				ART UNIT	PAPER NUMBER
WASHINGT		*	2121		

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

7									
		Application	Vo.	Applicant(s)					
,		10/725,936		CHIBA ET AL.					
Office Action Summary		Examiner		Art Unit					
		Thomas K. P	nam	2121					
The MAILING DA Period for Reply	TE of this communication a	ppears on the co	ver sheet with the c	orrespondence ad	dress				
WHICHEVER IS LONG  - Extensions of time may be averafter SIX (6) MONTHS from the  - If NO period for reply is specification.  - Failure to reply within the set of	JTORY PERIOD FOR REP ER, FROM THE MAILING illable under the provisions of 37 CFR 1 e mailing date of this communication. ed above, the maximum statutory perior or extended period for reply will, by statu- te later than three months after the mail t. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event, l ad will apply and will ex ute, cause the applicati	COMMUNICATION nowever, may a reply be timpire SIX (6) MONTHS from to become ABANDONED	N. nety filed the mailing date of this of (35 U.S.C. § 133).					
Status									
1) Responsive to co	mmunication(s) filed on 03	December 2003	).						
2a) ☐ This action is FIN	• • • • • • • • • • • • • • • • • • • •	nis action is non-							
<i>,</i> — · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4a) Of the above 5) ☐ Claim(s) is 6) ☑ Claim(s) <u>1-4</u> is/ar 7) ☐ Claim(s) is	e rejected.	rawn from consi							
Application Papers									
10) The drawing(s) file  Applicant may not a  Replacement draw	is objected to by the Examined on <u>03 December 2003</u> is request that any objection to thing sheet(s) including the correstation is objected to by the Examined	s/are: a)⊠ acce ne drawing(s) be h ection is required i	eld in abeyance. See f the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).				
Priority under 35 U.S.C. §	119								
a) All b) Some Some 1. Certified conditions of the application	is made of a claim for foreige * c) None of: opies of the priority document opies of the priority document the certified copies of the priority from the International Bure letailed Office action for a lis	nts have been ronts have been roiority documents	eceived. eceived in Applications have been receive 7.2(a)).	on No ed in this National	Stage				
Attachment(s)  1) X Notice of References Cited	(PTO-892)	<i>Δ</i> )	☐ Interview Summary	(PTO-413)					
	tent Drawing Review (PTO-948) ement(s) (PTO-1449 or PTO/SB/0	-,	Paper No(s)/Mail Da  Notice of Informal Pa	ite	O-152)				

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## **First Action on the Merits**

1. Claims 1-4 of U.S. Application 10/725,936 filed on 12/03/2003 are presented for examination.

## **Quotations of U.S. Code Title 35**

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim Rejections - 35 USC § 102

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6.

5,862,056 ("Iwata").

Regarding claim 1

Iwata teaches a numerical control apparatus capable of controlling a plurality of controlled axes

(see col. 1 line 7-14) and comprising:

storage means for storing a command program describing movement amounts or

positional information of controlled axes commanded in association with the axis

numbers of the controlled axes (see col. 3 lines 45-56); and

program analyzing means for analyzing the command program to decode it into the

movement amounts or positional information of the axes (see col. 3 lines 57-64);

wherein the plurality of axes are controlled according to the movement amounts or

positional information analyzed by the program analyzing means (see col. 4 lines 17-37).

Claim Rejections - 35 USC § 103

7. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent

No. 5,862,056 ("Iwata") in view of Japanese Patent No. 11-143511 ("Hosokawa").

Regarding claim 3

Iwata teaches a numerical control apparatus capable of controlling a plurality of controlled axes.

comprising: storage means for storing correspondences between axis addresses designating the

controlled axes and controlled axis numbers (see col. 3 lines 45-56).

Iwata does not specifically teach controlled axis number obtaining means for obtaining

the controlled axis numbers from the axis addresses written in the command program, based on

the correspondences stored in the storage means; and wherein the plurality of controlled axes are

controlled based on the controlled axis numbers obtained from the controlled axis number

obtaining means.

However, Hosokawa teaches a numerical control apparatus including a controlled axis

number obtaining means for obtaining the controlled axis numbers from the axis addresses

written in the command program, based on the correspondences stored in the storage means (see

paragraph 59 and paragraph 67); and wherein the plurality of controlled axes are controlled

based on the controlled axis numbers obtained from the controlled axis number obtaining means

(see paragraph 55) for the purpose of reducing cost from utilizing less time and labor (see

paragraphs 7-9).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to incorporate the method of obtaining controlled axis numbers of Hosokawa with the

system of Iwata because it would provide for the purpose of reducing cost from utilizing less

time and labor.

Regarding claim 2

Iwata does not teach variable storage means for storing controlled axis numbers to be designated

and set by the command program, wherein the controlled axis numbers can be designated by

using variables.

However, Hosokawa teaches variable storage means for storing controlled axis numbers

to be designated and set by the command program, wherein the controlled axis numbers can be

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designated by using variables (see paragraph 59) for the purpose of reducing cost from utilizing less time and labor (see paragraphs 7-9).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the method of obtaining controlled axis numbers of Hosokawa with the system of Iwata because it would provide for the purpose of reducing cost from utilizing less time and labor.

## Regarding claim 4

Hosokawa teaches wherein the controlled axis numbers are designated by using operational expressions (see paragraph 72, TABLE 2 and paragraph 73).

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to examiner *Thomas Pham*; whose telephone number is (571) 272-

3689, Monday - Thursday from 6:30 AM - 5:00 PM EST or contact Supervisor Mr. Anthony

Knight at (571) 272-3687.

Any response to this office action should be mailed to: Commissioner for Patents, P.O.

Box 1450, Alexandria VA 22313-1450. Responses may also be faxed to the official fax

number (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Thomas Pham** 

Patent Examiner

Thylen

October 3, 2005